

Additional Information Related to DMR Data for Outfall 010

Analytical Results for Samples Collected from the Toe Drain Portion of Outfall 010

The discharge from Outfall 010 consists of two components: stormwater runoff and the toe drain associated with Ash Pond D. These components enter the infrastructure associated with Outfall 010 at distinct locations, mix, and the combined flow passes under Possum Point road and discharges to the unnamed tributary to Quantico Creek. On February 8, 2016, four-hour composite samples of the toe drain portion of the discharge were collected at the point where the toe drain enters the collection system, prior to mixing with any stormwater. These samples were collected concurrent with the four-hour composite samples collected from Outfall 010 for DMR compliance and were analyzed for all Outfall 010 parameters except whole effluent toxicity.

Results for the February 8, 2015 toe-drain samples were remarkably similar to the results for previous samples from this location (provided by email dated January 6, 2016) indicating very little temporal variability in the characteristics of this portion of the Outfall 010 discharge (see Table 1 attached). In addition, the concentrations of all measured parameters are well below the newly established VPDES limits and applicable water quality criteria, and are within the range of values measured in background groundwater samples at Possum Point.

Relationship to Samples Collected from Outfall 010 on January 21, 2016

Permit compliance samples from Outfall 010 were collected on February 8, 2016 concurrent with collection of the samples from the toe-drain portion of the discharge. The samples were collected at the point just prior to the discharge entering the unnamed tributary to Quantico Creek, and were analyzed for all DMR parameters except chronic toxicity. Each 7-day chronic test requires the collection of three (3) 24-hour composite samples over a 5-day period. As reported to DEQ by email dated February 18, 2016, all flow from Outfall 010 was stopped on Friday, February 12, 2016. Therefore, Dominion was unable to collect a sufficient number of samples to conduct the chronic tests.

Path Forward

As noted above, all flow from Outfall 010 was stopped on Friday, February 12, 2016 following the insertion of an inflatable plug in the downstream end of the 72 inch discharge pipe. Insertion of the plug isolated the toe drain and stormwater contributions to Outfall 010, which have been collected and pumped to Ash Pond D. Since February 12, Dominion has initiated efforts to permanently plug the 72" discharge pipe. This will be accomplished by construction of a one-foot wide concrete plug in the downstream end of the pipe. Following installation and curing of the plug the remainder of the pipe will be backfilled with concrete. All accumulated sediment has been removed from the 72" pipe and pouring of the concrete plug was initiated on March 2, 2016.